In the Claims

1. (Currently Amended) A method for route discovery, the method comprising the steps of:

determining that a first node needs to communicate with a second node, wherein the first and the second nodes are part of an underlay ad-hoc communication system;

sending, by the first node, a message to an overlay communication system notifying the overlay communication system of the need to communicate with the second node;

receiving by the first node, from the overlay communication system, instructions to broadcast a route-discovery message;

broadcasting the route discovery message within the underlay communication system; and

receiving by the first node route information from the overlay communication system.

- 2. (Original) The method of claim 1 wherein the step of sending the message to the overlay communication system comprises the step of sending the message to a cellular communication system.
- 3. (Original) The method of claim 1 wherein the step of receiving route information comprises the step of receiving a sequenced list of IP addresses.
- 4. (Currently Amended) A method comprising the steps of:

receiving, by a first node, from an overlay communication system, a message instructing the first node to broadcast a route discovery message, wherein the first node exists within an underlay communication system; and

broadcasting the route discovery message within the underlay communication system.

5. (Original) The method of claim 4 wherein the step of receiving from the overlay communication system comprises the step of receiving from a cellular communication system.

6. (Currently Amended) A method for operating a node within an underlay communication system, the method comprising the steps of:

receiving a route-discovery message from a first node, wherein the first node is part of an underlay communication system;

receiving a route-discovery message from a second node, wherein the second node is part of the underlay communication system;

determining route information based on the route-discovery messages; and transmitting the route information through an overlay communication system to the first node.

- 7. (Cancelled).
- 8. (Cancelled).
- 9. (Original) The method of claim 6 wherein the step of transmitting the route information comprises the step of transmitting the route information through an overlay cellular communication system.
- 10. (Currently Amended) A method comprising the steps of:

receiving at a base station in an overlay communication system, a message from a first node in an underlay communication system, the message indicating a need to discover a route to a second node;

broadcasting by the base station, a message to nodes within the underlay communication system, the message instructing the nodes to monitor for flood messages from the first and the second nodes;

receiving by the base station a message from a third node in an underlay communication system, the message comprising route information; and

transmitting by the base station, the route information to the first node.

- 11. (Cancelled)
- 12. (Cancelled).
- 13. (Original) The method of claim 10 wherein the step of receiving the route information from the third node comprises the step of receiving a sequenced list of IP addresses from the third node.

14. (Currently Amended) The method of claim 10 further comprising the step of transmitting by the base station, a flood stop message causing nodes within the underlay communication system to cease transmission of flood messages.

15. (Currently Amended) An apparatus comprising:

means for determining that a first node needs to communicate with a second node, wherein the first and the second nodes are part of an underlay communication system;

means for sending, by the first node, a message to an overlay communication system notifying the overlay communication system of the need to communicate with the second node;

means for receiving by the first node, from the overlay communication system, instructions to broadcast a route-discovery message;

means for broadcasting by the first node, the route discovery message; and means for receiving by the first node route information from the overlay communication system.

16. (Currently Amended) An apparatus comprising:

means for receiving, by a first node, from an overlay communication system, a message instructing the first node to broadcast a route discovery message, wherein the first node exists within an underlay communication system; and

means for broadcasting the route discovery message within the underlay communication system.

17. (Currently Amended) An apparatus comprising:

means for receiving a route-discovery message from a first node, wherein the first node is part of an underlay communication system;

means for receiving a route-discovery message from a second node, wherein the second node is part of the underlay communication system;

means for determining route information based on the route-discovery messages; and

means for transmitting the route information <u>through an overlay communication</u> system to the first and the second nodes.

18. (Currently Amended) An apparatus comprising:

means for receiving <u>at a base station in an overlay communication system</u>, a message from a first node in an underlay communication system, the message indicating a need to discover a route to a second node;

means for broadcasting by the base station, a message to nodes within the underlay communication system, the message instructing the nodes to monitor for flood messages from the first and the second nodes;

means for receiving <u>by the base station</u> a message from a third node in an underlay communication system, the message comprising route information; and

means for transmitting by the base station the route information to the first nodes.